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### [1. A14-016: Ultra-low power "system-on-a-chip" integrated circuit for fieldable neurobiological sensing](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop an ultra-low voltage system for neurological sensing capable of operating with no secondary power supply, with performance in the range of current commercially available solutions. A successful application will include coordination with U.S. Army Research Laboratory (ARL) scientists to ensure understanding of the application space of sensing brain activity within real-world envi ...

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### [2. A14-017: Flexible, high-frequency, high-durability, and multifunctional sensor film](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: To develop advanced flexible sensor system with distributed sensing capability for measuring extreme pressure/force/acceleration on Soldiers' heads and bodies caused by ballistic, blast, and blunt impacts. DESCRIPTION: Traumatic brain injuries (TBI's) caused by extreme events such as blast, ballistic, and blunt impacts have produced a high incidence of casualties and long-term chronic ...

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### [3. A14-018: Low-profile antennas using anisotropic/inhomogeneous magneto-dielectric metamaterials](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Develop low-profile Very-High Frequency/Ultra-High Frequency (VHF/UHF) antenna apertures using choice materials such as anisotropic/inhomogeneous magneto-dielectrics. DESCRIPTION: The advent of metamaterials has extended the design space for antenna apertures [4, p.4, (2.20)] creating the possibility for very thin (relative to wavelength) antenna structures. While basic physics limit ...

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### [4. A14-019: Development of Micro JP-8 Fuel Injection System for Small Unmanned Aerial and Ground Engines](#)

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: To develop and demonstrate a "novel" direct fuel injection system for small unmanned compression-ignition heavy-fuel (primarily Jet Propellant-8) engines (3-70 horsepower) DESCRIPTION: The Army is in need of efficient heavy-fuel small engines (3 to 70 horsepower) for unmanned aerial and ground systems. The success of these engines requires efficient and reliable micro direct fuel injec ...

SBIR Department of Defense Army

**5. [A14-020: Universal Software-Defined Receiver for Assured and Seamless Position, Navigation, and Timing \(PNT\)](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: The objective is to develop a software-defined navigation receiver with an improved assurance level for position, navigation, and timing (PNT). To mitigate the jamming, interference, and spoofing vulnerability of the Global Positioning System (GPS) receiver, the receiver gathers signals from GPS as well as other emerging global navigation satellite systems (GNSSs). Furthermore, the rece ...

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**6. [A14-021: Quantum frequency conversion for quantum communication](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: To develop a plug-and-play nonlinear device based on periodically poled lithium niobate waveguide (or similar) having high difference, and sum, conversion efficiency with at least 10 dB signal-to-noise. DESCRIPTION: The Department of Defense and the Army has a vested interest in secure communications. Quantum communication has been shown to be secure against eavesdropping due to the ...

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**7. [A14-022: Field Effects for Processing of Ultralightweight Materials with Superior Properties](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: Demonstrate the application of electromagnetic fields to develop, manipulate, process, and produce ultralightweight metals with superior properties. DESCRIPTION: The Army is highly interested in the application of electromagnetic fields for development of ultralightweight metals with tailored microstructures and properties. The current methods used to manipulate metal properties inv ...

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**8. [A14-023: Abuse Tolerant High Energy LiCoPO4-Based 5V Li-ion Cells](#)**

Release Date: 11-20-2013 Open Date: 12-20-2013 Due Date: 01-22-2014 Close Date: 01-22-2014

OBJECTIVE: The objective of this topic is to produce abuse tolerant, full LiCoPO<sub>4</sub> based Li-ion cells of size greater than or equal to 1 Ah. DESCRIPTION: Li-ion batteries provide the most energy storage capability on a weight and volume basis and high energy dense batteries are needed to reduce the weight borne by the soldier. However, Li-ion batteries have been shown to be susceptible to abuse ...

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**9. [A14-024: Color Matching High Durability Coating for Combat Vehicle Tires and Treads](#)**

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: Combat vehicle tire/tracks represent a significant percentage of the vehicle's signature. The objective is to develop a high durability coating to provide long term color matching for combat ground vehicle tires and track treads that matches the body color of the combat vehicle. The developed technology will improve the signature of combat vehicle by increasing the percentage of the veh ...

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**10. [A14-025: Experimental Application of Non-Relational Database Technology for Scaled Simulation Based Training](#)**

Release Date: 11-20-2013Open Date: 12-20-2013Due Date: 01-22-2014Close Date: 01-22-2014

OBJECTIVE: The objective is to research and develop a non-relational database (NRB) approach for use with existing simulation based training applications. NRB strategies allow for horizontal scaling of computational resources (ie taking advantage of more nodes in a computational cluster of computers) that traditional structured query language databases do not. The resulting approach is expected to ...

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